07-16-07

10/587,792

31 July 2006

Lopez Rodriguez, M., et al

PTO/SB/21 (04-07) jüL 1 3 7007 Approved for use through 09/30/2007. OMB 0651-0031
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Daisy Manning

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			Ex	aminer Name		TBA
otal Number of Pages in This Submission			Att	torney Docket	Number	6102-000031/US/NP
		ENCLO	SUR	RES (check all t	hat apply)	
☐ Fee Transmittal Form ☐ Drawin			wing(s)			After Allowance Communication to Technology Center (TC)
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Amendment / Rep	oly	Petition	1			Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
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Affidavits/dec	laration(s)			torney, Revocat Correspondence		Status Letter
Extension of Time	Request	☐ Terminal Disclaimer			Other Enclosure(s) (please identify below):	
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Attorney Ref. 6102-000031/US Serial No: 10/587,792

Title: Diaza- or Thiazadione Derivatives with Neuroprotective Activity

Filed: July 31, 2006

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Transmittal (1 page)

IDS Statement (5 pages) in duplicate

Form 1449 (7 pages)

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Application of:

Lopez Rodriguez, M., et al.

Serial No:

10/587,792

Filed:

31 July 2006

Title:

DIAZA- OR THIAZADIONE DERIVATIVES WITH

STATES PATENT AND TRADEMARK OFFICE

NEUROPROTECTIVE ACTIVITY

Group Art Unit:

TBA

Examiner:

TBA 5328

Confirmation No: Attorney Docket:

6102-000031/US/NP

Client Ref. No.:

CEPA II

13 July 2007

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

П COPIES

A. Numitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed,

27/17/2007 RMEBRAHI 00000029 080750

including any claims directed to that portion), <u>except</u> for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.				
B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upor for an earlier filing date under 35 U.S.C. § 120:				
U.S. Serial Number	U.S. Filing Date			
A copy of the International Sea The documents listed on the Inte 1449 for consideration by the Ex application. If the International authorities, copies of these refere	in the entry of the National Phase in the United States. rch Report is attached for the Examiner's information. rmational Search report are listed on the attached Form atminer and for listing on any patent resulting from this Search report was from the US, EPO, or JPO search nces should have been supplied to the USPTO under the eved to be in the file of the above-identified application.			
CONCISE EXPLANATION OF	THE RELEVANCE (check at least one box)			
	ed below in (B), all of the patents, publications or other aguage (concise explanation not required).			
	of the relevance of each patent, publication or other the English language is as follows (see 37 C.F.R. §			
1. See the attached for foreign application:	reign patent office communication from a counterpart			
1997/35860 A1, ar English language abstract ES 2154605 A1. English language counter	are provided: s are provided for: WO 1996/06846 A1, WO and WO 1999/15527 A1. s are provided by the applicant for: ES 2094690 A1 and parts are provided for: EP 0352613 B1, ES 2052829 T3, A1, ES 2199086 A1, WO 2004/014915 A1, and ES			
3. U Other:				

III.

C. The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A.
☐ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does (do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.	Filing Date	Inventor(s)
10/522,697	27 January 2005	Zambrana, J., et al.
11/722,786	25 June 2007	Lopez-Rodriguez, M., et al.
60/834,385	31 July 2006	Zambrana, J., et al.
60/834,384	31 July 2006	Lopez Rodriguez, M., et al.

V. THIS IDS IS BEING FILED UNDER

A. 37 C.F.R. § 1.97(b): (check only one box)

- 1. \(\) within three months of the filing date of a national application other than a continued prosecution application under \(\) 1.53(d) (37 C.F.R. \(\) 1.97(b)(1)). No fee or certification is required.
- 2. within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
- 3. Defore the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
- 4. Defore the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. X 37 C.F.R. § 1.97(c): (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

 No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
2. See the certification below. No fee is required.
C. 37 C.F.R. § 1.97(d):
after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
1. \square See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
The undersigned hereby certifies that:
A. \square each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or
B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
C. some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each tem of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.
STATEMENT UNDER 37 C.F.R. 1.704(d)
The undersigned hereby states that:
\square each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not

VI.

VII.

received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box, if applicable)

- A. A check in the amount of \$180.00 is enclosed for the above-identified fee.
 - B. \boxtimes Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-identified fee. A duplicate copy of this paper is attached.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. \S 1.16 or \S 1.17 to Deposit Account No. 08-0750.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Respectfully submitted.

J. Timothy Keane

Attorney for Applicant Reg. No. 27,808

Harness, Dickey & Pierce, P.L.C. 7700 Bonhomme, Suite 400 St. Louis, MO 63105 (314) 726-7518 (tel) (314) 726-7501 (fax)

U.S. PATENT DOCUMENTS

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 7

ATTORNEY DOCKET No.	SERIAL NO.
6102-000031/US/NP	10/587,792
APPLICANT	
Lopez Rodriguez, M., et a	I.
FILING DATE	GROUP
31 July 2006	

Ref.	Examiner's	Document	D		Class/ Subclass	(If appropria	ite)
Desig.	Initials /K.B./	Number	Date	Name	C07D	Filing Date	
1	١,	US 5137901 A	08/11/1992	United States	417/00		
2		US 6919360 B2	07/19/2005	United States	C07D 417/12		
3		US 2005/0250777 A1	11/10/2005	United States	C07D 498/02		
FORE	IGN PATE	ENT DOCUMENTS					
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
4		EP 0352613 B1	04/20/1994	Europe	C07D 417/12	х	
U.N. 5 n		ES 2052829 T3	07/16/1994	Spain	C079D 417/12	х	
6		WO 199606846 A1	03/07/1996	PCT	C07D 487/04	X (abstract only)	
. 7		ES 2082727 A1	03/16/1996	Spain	C07D 487/04		х
8		ES 2094690 A1	01/16/1997	Spain	C07D 207/452	X (abstract only)	
, 9		WO 199735860 A1	10/02/1997	PCT	C07D 154/14	X (abstract only)	
iter Der 10		ES 2109190 A1	01/01/1998	Spain	C07D 451/04		х
ij. 11 .		WO 199915527 A1	04/01/1999	PCT	C07D 487/04	X (abstract only)	

Examiner:

12

/Kristin Bianchi/

ES 2129370 A1

Date Considered:

01/14/2009

х

C07D

487/04

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Spain

06/01/1999

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Sheet 2 of 7

ATTORNEY DOCKET No.	SERIAL NO.	_
6102-000031/US/NP		
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FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Exam	iner's	Document Number	Date	Country	Class/ Subclass	Translation Yes No
13	/K.	B./	WO 199929687 A1	06/17/1999	PCT	C07D 405/14	
. 14			ES 2154605 A1	04/01/2001	Spain	C07D 451/04	X (abstract only)
15			WO 2003029250 A1	04/10/2003	PCT	C07D 417/12	х
16			ES 2199086 A1	02/01/2004	Spain	C07D 487/04	x
. 17			WO 2004014915 A1	02/19/2004	PCT	C07D 487/04	х
. 18			ES 2238015 A1	08/01/2005	Spain	C07D 487/04	х
. 19			WO 2005075480 A1	08/18/2005	PCT	C07D 487/04	
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21			WO 2006069993 A1	07/06/2006	PCT	C07D 487/04	

OTHER DC CUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examin Initia's	cr's		
22		Ambrossio, E. et al., f'HJprazosin binding to central nervous system regions of male and female rats, NEUROSCI. LETT. 49(1-2):193-197 (1984)		
23		Titeler, M. et al., Selectivity of serotonergic drugs for multiple brain serotonin receptors: Role of [*HJ-4-bromo-2,5-dimethoxylphenyltsopropylamine (*HJDOB), A 5-HT, agonist radioligand, BIOCHEM, PHARMAGOL. 36(19):265-3271 (1987)		
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Examiner: /Kristin Bianchi/ Date Considered: 01/14/2009

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Sheet 3 of 7

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6102-000031/US/NP	10/587,792
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Lopez Rodriguez, M., et al	<i>l</i> .
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31 July 2006	

OTHE	R DOCUM	ENTS (including Author, Title, Date, Pertinent Pages, etc.)
Ref. Desig.	Examiner's Initials	
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36	V	Lopez-Rodriguez, M.L. et al., Synthesis and structure-activity relationships of a new model of arylpiperazines. 3.1 2-[omega-(4-arylpiperazin-1-yl)alkyl]perhydropyrrolo-[1,2-c]imidazoles and perhydroimidazo[1,5-a]pyridines: study of the influence of the terminal amide fragment on 5-HT1A affinity/selectivity, J. MED. CHEM. 40(16):2653-2656 (1997)

Examiner:	/Kristin Bianchi/	Date Considered	j : 01/14/2009

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Sheet 4 of 7

ATTORNEY DOCKET No.	SERIAL NO.
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31 July 2006	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)			
Ref. Desig.	Examiner's Initials		
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41		Suchanek, B. et al., The 5-HT _{1A} receptor agonist BAY x 3702 prevents staurosporine-induced apoptosis, EUR. J. PHARMACOL. 355(1):95-101 (1998)	
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43		Justicia, C. and Planas, A.M., Transforming growth factor-a acting at the epidermal growth factor receptor reduces infact volume after permanent middle cerebral artery occlusion in rats, J. CEREB. BLOOD FLOW METAB. 192:128-132 (1999)	
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Examiner:	/Kristin Bianchi/	Date Considered:	01/14/2009	

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Sheet 5 of 7

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6102-000031/US/NP	10/587,792
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)			
Ref. Desig.	Examiner's Initials		
47	/K.B./	Lopez-Rodriguez, M.L. et al., Synthesis and structure-activity relationships of a new model of arylpiperazines. 4. I-[omega-(4-4xylpiperazin-1-yl)alkyl]-3-(diphenylmethylene) - 2,5-pyrrolidinediones and -3-(9H-fluoren-9-ylidene)-2,5-pyrrolidinediones: study of the steric requirements of the terminal amide fragment on 5-HT _{LA} affinity/selectivity, J. MED. CHEM. 42(1):36-49 (1999)	
48		Lopez-Rodriguez, M.L. et al., Synthesis of new (benzimidazolyl)piperazines with affinity for the 5- HT _{IA} receptor via Pd(0) amination of bromobenzimidazoles, BIOORG. MED. CHEM. LETT. 9:2339- 2342, 1999	
49		Galter, D. et al., Sequential activation of the 5-HT _{IA} serotonin receptor and TrkB induces the serotonergic neuronal phenotype, MOL. CELL. NEUROSCI. 15(5):446-455 (2000)	
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